REMARKS

New figures 1A, 1B, 3A, 3B, 6A, 6B, and 7, attached herewith, have been amended in response to the Notice of Draftperson's Patent Drawing Review dated 5/19/03 (attached to paper no. 25). The margins were adjusted and the views were re-labeled. The amended figures raise no issue of new matter.

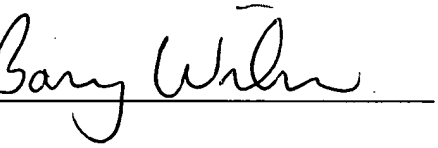
Applicant believes that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 50-0872.

Respectfully submitted,

Date November 20, 2003

By 

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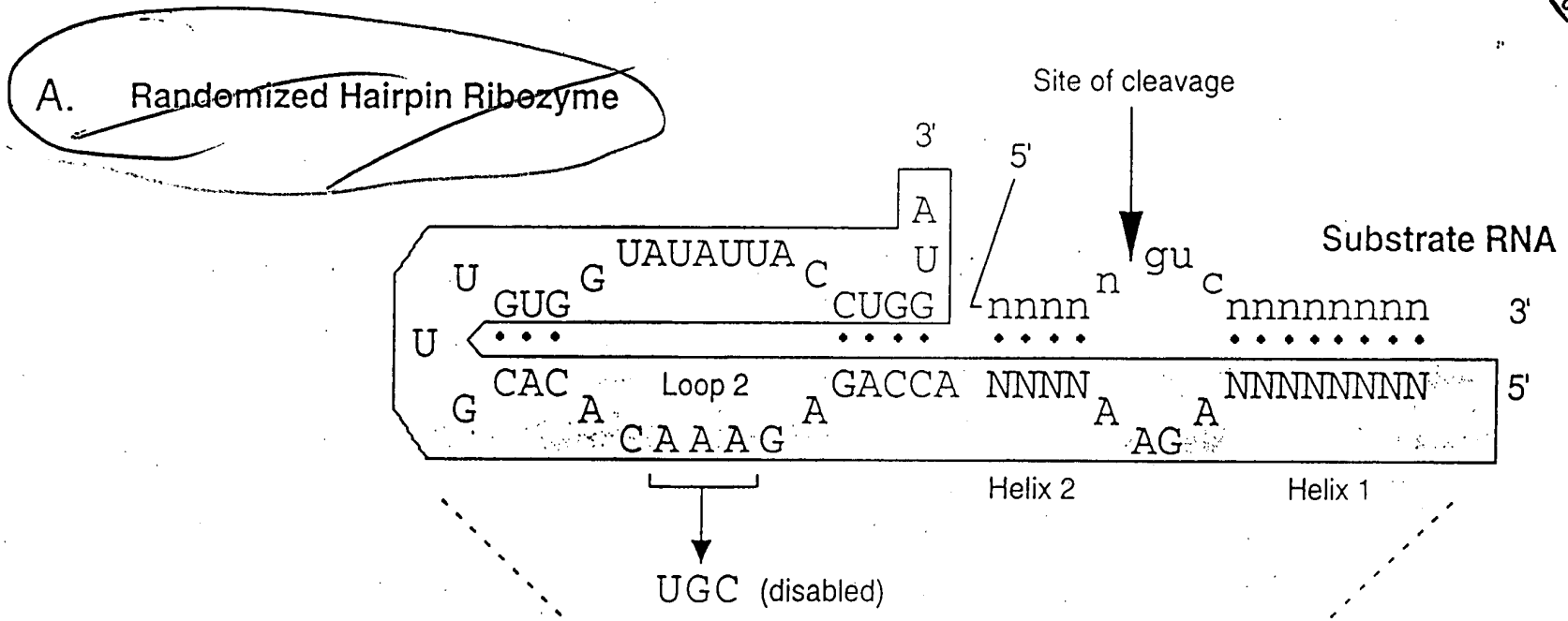

FIG. 1A

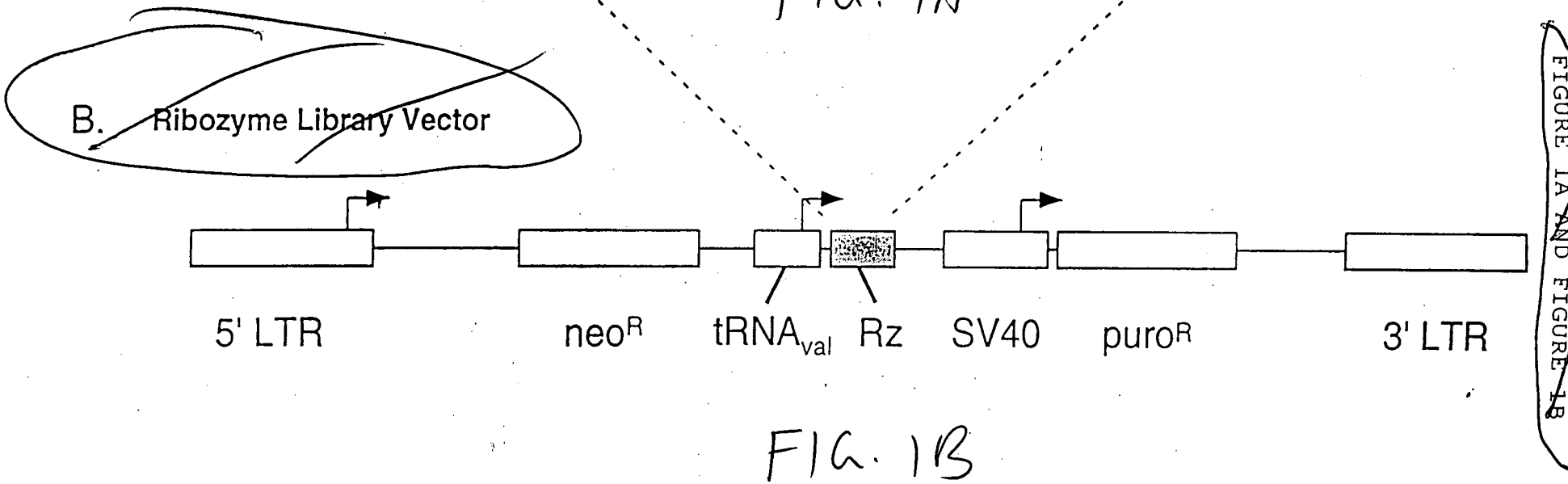

FIG. 1B

Welch et al.
P-IU 3446
FIGURE 1A AND FIGURE 1B

A.

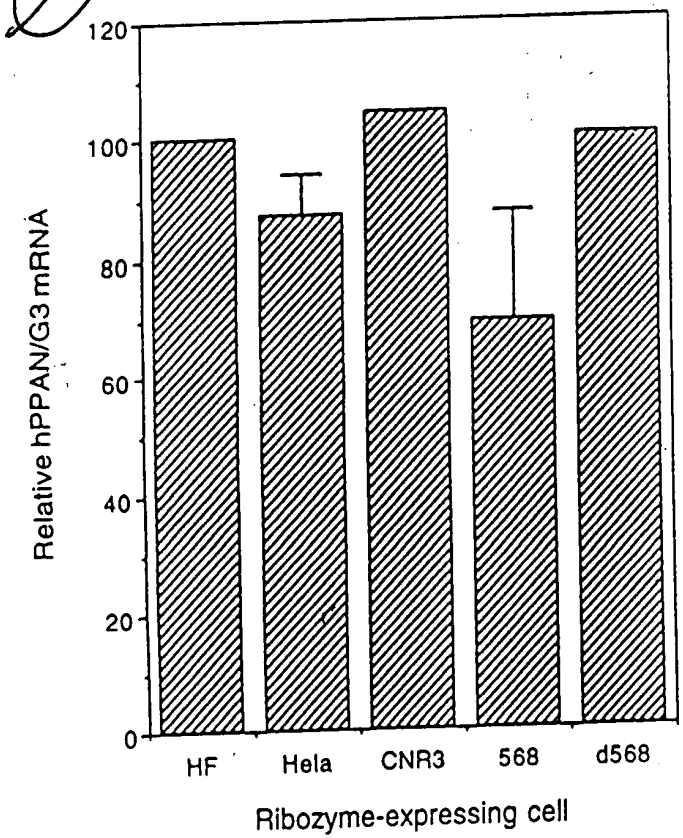

FIG. 3A

B.

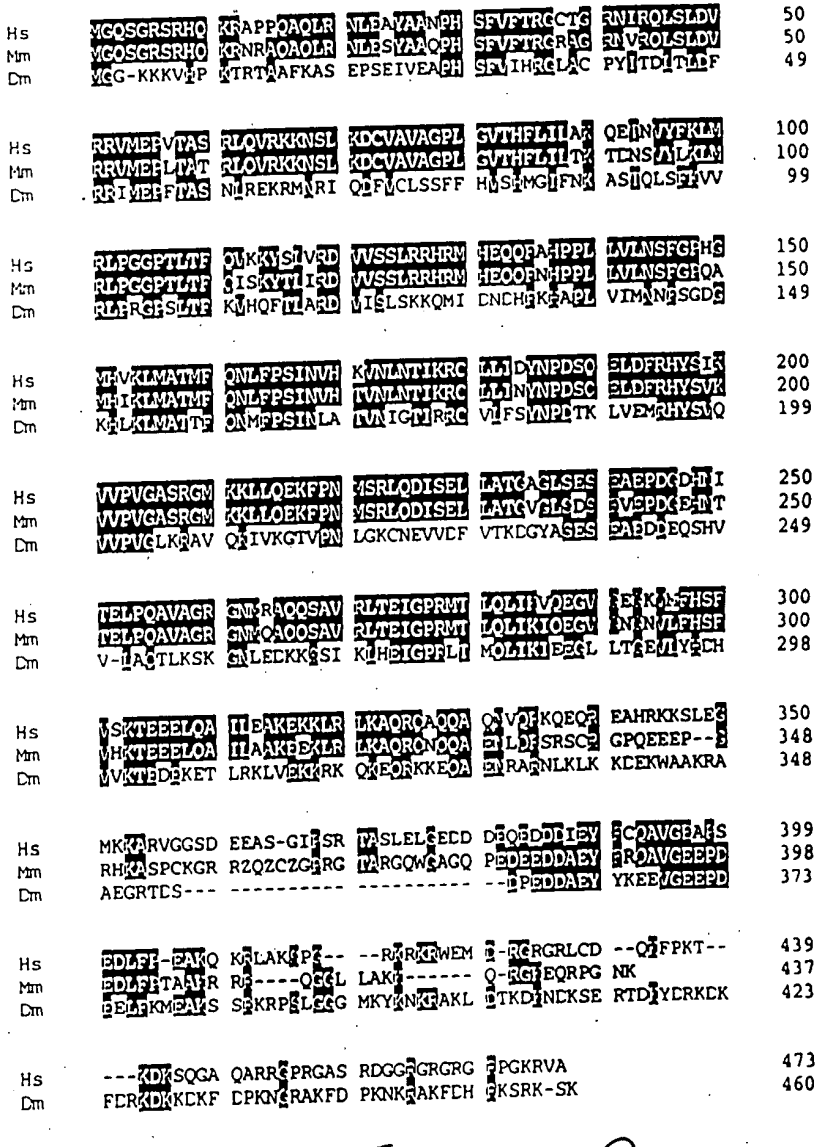

FIG. 3B

Welch et al.
P-IU 3446
FIGURE 3A AND FIGURE 3B

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      |   10      |   20      |   30      |   40      |   50      |   60
    1 GCCTGATGTC GTCCCACGCC GTGCCGGCTC TCAGGCGCCG GAAGTGAGCT GCGCACGGCC 60
   61 GGAAGCGGCG GACGCAGGAG GCCTCGTGGA GGACACAGCA GCATGGGACA GTCAGGGAGG 120
  121 TCCCGGCACC AGAAGCGCGC CCCGCCCCAG GCGCAGCTCC GCAACCTCGA GGCCTATGCC 180
  181 GCGAACCCGC ACTCGTTCGT GTTCACGCGA GGCTGCACGG GTCGCAACAT CCGGCAGCTC 240
  241 AGCCTGGACG TGCGGCGGGT CATGGAGCCC GTCACTGCCA GCCGTCTGCA GGTTCGTAAG 300
  301 AAGAACTCGC TGAAGGACTG CGTGGCAGTG GCTGGGCCCC TCGGGGTCAC ACACTTTCTG 360
  361 ATCCTAGCAA AACAAGAGAC CAATGTCTAC TTTAAGCTGA TGCGCCTCCC AGGAGGCCCC 420
  421 ACCTTGACCT TCCAGGTCAA GAAGTACTCG CTGGTGCGTG ATGTGGTCTC CTCACTGCGC 480
  481 CGGCACCGCA TGCACGAGCA GCAGTTTGCC CACCCACCCC TCCTGGTACT CAACAGCTTT 540
  541 GGCCCCCATG GTATGCATGT GAAGCTCATG GCCACCATGT TCCAGAACCT GTTCCCCTCC 600
  601 ATCAACGTGC ACAAGGTGAA CCTGAACACC ATCAAGCGCT GCCTCCTCAT CGACTACAAC 660
  661 CCCGACTCCC AGGAGCTGGA CTTCCGCCAC TATAGCATCA AAGTTGTTCC TGTGGGCGCG 720
  721 AGTCGCGGGA TGAAGAAGCT GCTCCAGGAG AAGTTCCCCA ACATGAGCCG CCTGCAGGAC 780
  781 ATCAGCGAGC TGCTGGCCAC GGGCGCGGGG CTGTCGGAGA GCGAGGCAGA GCCTGACGGC 840
  841 GACCACAACA TCACAGAGCT GCCTCAGGCT GTCGCTGGCC GTGGCAACAT GCGGGCCCAG 900
  901 CAGAGTGCAG TGCGGCTCAC CGAGATCGGC CCGCGGATGA CACTGCAGCT CATCAAGGTC 960
  961 CAGGAGGGCG TCGGGGAGGG CAAAGTGATG TTCCACAGTT TTGTGAGCAA GACGGAGGAG 1020
 1021 GAGCTGCAGG CCATCCTGGA AGCCAAGGAG AAGAAGCTGC GGCTGAAGGC TCAGAGGCAG 1080
 1081 GCCCAGCAGG CCCAGAATGT GCAGCGCAAG CAGGAGCAGC GGGAGGCCCA CAGAAAGAAG 1140
 1141 AGCCTGGAGG GCATGAAGAA GGCACGGGTC GGGGGTAGTG ATGAAGAGGC CTCTGGGATC 1200
 1201 CCTTCAAGGA CGGCGAGCCT GGAGTTGGGT GAGGACGATG ATGAACAGGA AGATGATGAC 1260
 1261 ATCGAGTATT TCTGCCAGGC GGTGGGCGAG GCGCCCAGTG AGGACCTGTT CCCCGAGGCC 1320
 1321 AAGCAGAAAC GGCTTGCCAA GTCTCCAGGG CGGAAGCGGA AGCGGTGGGA AATGGATCGA 1380
 1381 GGCAGGGGTC GCCTTTGTGA CCAGAAGTTT CCCAAGACCA AGGACAAGTC CCAGGGAGCC 1440
 1441 CAGGCCAGGC GGGGGCCCAG AGGGGCTTCC CGGGATGGTG GGCGAGGCCG GGGCCGAGGC 1500
 1501 CGCCCAGGGA AGAGAGTGGC CTGAGCCCAA GCCGCACCGG AGCAGCGGCT GGATTGAACG 1560
 1561 CCCCAGATTG GGGCCCGAGA TGTGGCCCTC GGTTTCCTTT CATAAAGGAG TTGTGTCCCC 1620
 1621 AGCCCTTCCA CTCCAGTAAA GAACTGAATT GGCAAAAAAA AAAA                   1664
      |   10      |   20      |   30      |   40      |   50      |   60
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FIG. 6A

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      |  10       |  20       |  30       |  40       |  50       |  60
    1 MGQSGRSRHQ KRAPPQAQLR NLEAYAANPH SFVFTRGCTG RNIRQLSLDV RRVMEPVTAS 60
   61 RLQVRKKNSL KDCVAVAGPL GVTHFLILAK QETNVYFKLM RLPGGPTLTF QVKKYSLVRD 120
  121 VVSSLRRHRM HEQQFAHPPL LVLNSFGPHG MHVKLMATNF QNLFPSINVH KVNLNTIKRC 180
  181 LLIDYNPDSQ ELDFRHYSIK VVPVGASRGN KKLLQEKFPN MSRLQDISEL LATGAGLSES 240
  241 EAEPDGDHNI TELPQAVAGR GNMRAQQSAV RLTEIGPRHT LQLIKVQEGV GEGKVMFHSF 300
  301 VSKTEEELQA ILEAKEKKLR LKAQRQAQQA QNVQRKQEQR EAHRKKSLEG MKKARVGGSD 360
  361 EEASGIPSRT ASLELGEDDD EQEDDDIEYF CQAVGEAPSL DLFPEAKQKR LAKSPGRKRT 420
  421 RWEMDRGRGR LCDQKFPKTK DKSQGAQARR GPRGASRDGG RGRGRGRPGK RVAZ      474
      |  10       |  20       |  30       |  40       |  50       |  60
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FIG. 6B

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MM                                  FGQGGKQAAWGSPGGPDIRSAIAPGELRNLESYAAQPHSFV 41
HS

MM      FTRG---RAGRNVRQLSLQVRRVMEPLTATRLQVRKKNSLKDCVAVAGPLGVTHFLILTK 98
HS                                                  LGPRVTHFLILSK 13

MM      TD--NSVYLKLMRLPGGPTLTFQISKYTLIRDVVSSLRRH-RMHEQQFNHPPLLVLNSFG 155
HS      TE--TNVYFKLMRLPGGPTLTFQVKKYSLVRDVVSSLRRH-RMHEQQFAHPPLLVLNSFG 70

MM      PQG----------MHIKLMATMFQNLFPSINVHTVNLNTIKRCLLINYNPD-SQELDFRHY 205
HS      PHG----------MHVKLMATMFQNLFPSINVHKVNLNTIKRCSSXDLKPGFPRSLDFRPI 121

MM      SVKVVPVGASRGMKKLLQ------EKFPNMSRLQDISELLATGVG--------------- 244
HS      IAFKGGSCWAPNSGGL                                              137

MM      --------------------LSDSEVEPDGEHN------TTELPQAVAG-RGNMQAQQSA 277

MM      VRLTEIGPRMILQLIKIQEGVGNGNVLFMSFVHKTEEELQAILAAKEEKLRLKAQRQNQQ 337

MM      AENLQRXRSCRXPTRRRAWQA---------------------------------------- 358
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FIG. 7